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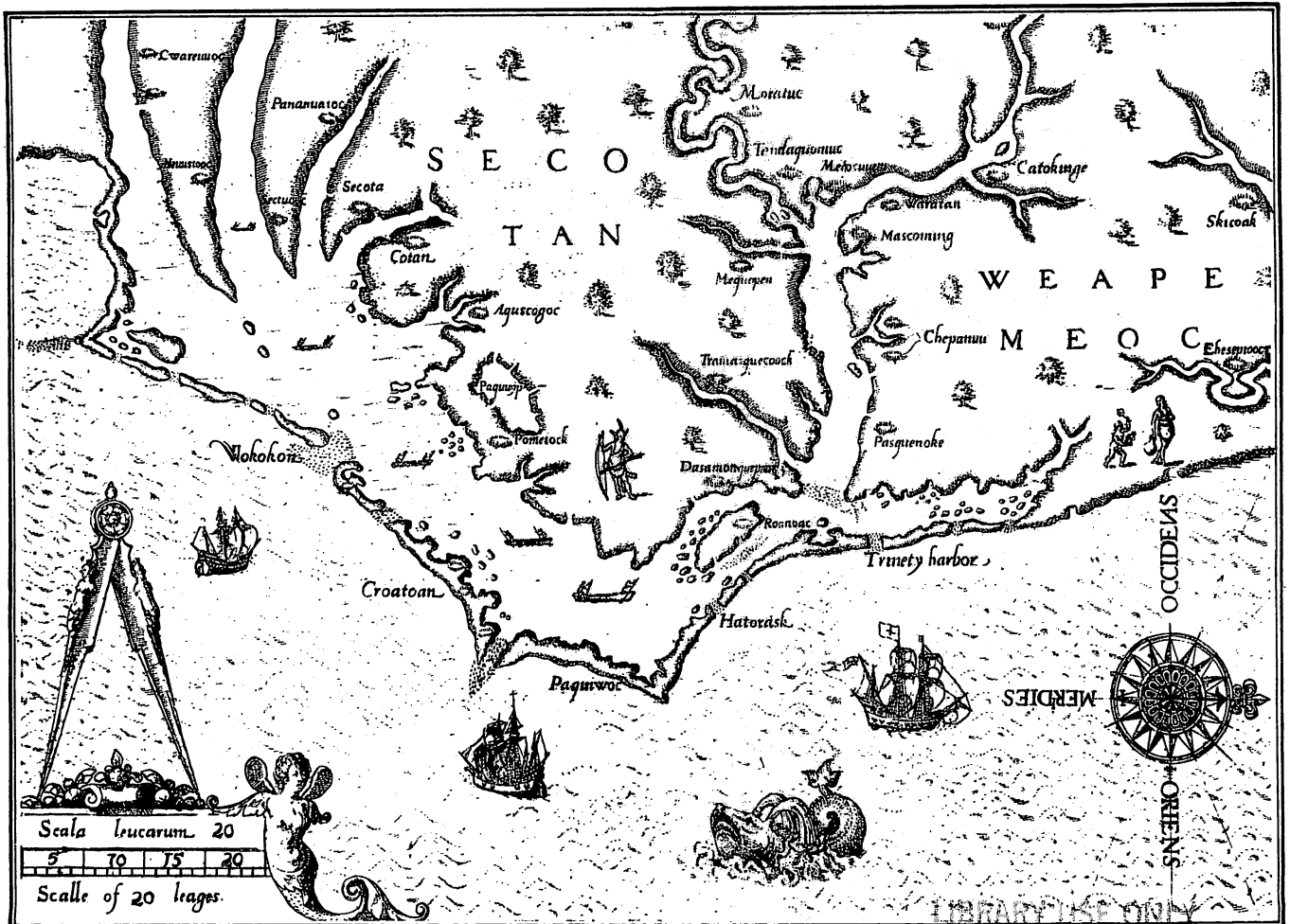
Geological Bibliography of North Carolina's Coastal Plain, Coastal Zone, and Continental Shelf

Stanley R. Riggs and Michael P. O'Connor
June, 1975

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North Carolina Mineral Resources Section
Bulletin No. 83



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GEOLOGICAL BIBLIOGRAPHY OF NORTH CAROLINA'S
COASTAL PLAIN, COASTAL ZONE, AND CONTINENTAL SHELF

by

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June, 1975

SEA GRANT PUBLICATION UNC-SG-75-13

University of North Carolina Sea Grant Program
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NORTH CAROLINA MINERALS RESOURCES SECTION BULLETIN NO.83

North Carolina Department of Natural and Economic Resources
Division of Resource Planning and Evaluation
Mineral Resources Section
Raleigh, North Carolina 27611

This work was sponsored by 1) the Office of Sea Grant, NOAA, United States Department of Commerce, under Grant Number 04-3-158-40, and the State of North Carolina, Department of Administration; 2) the East Carolina University Department of Geology; and 3) the North Carolina Board of Science and Technology. The United States Government is authorized to produce and distribute reprints for governmental purposes not withstanding any copyright that may appear hereon.

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INTRODUCTION

The Coastal Zone is probably the most dynamic natural system on the surface of the Earth. The continuously operating processes of waves, tides, and currents, along with the all too frequent high energy storms, are continuously affecting and modifying this buffer zone between the ocean and the land. The North Carolina Coastal Zone, like any coastal zone, is both a consequence of its geologic past and a product of the dynamic geologic processes operating daily and continuously. There is now another major variable which will dictate to a large extent the future responses of the coastal zone -- man. The construction of extensive walls of condominiums, summer homes, resorts, and highways along the beach areas produce "permanent" economic barriers within a highly dynamic, changeable natural system. Thus, we take a not-so-fragile natural system that gives with, and modifies itself to the ever changing energy regimes and processes of the coast, and produce a "quasi-permanent" system that is no longer allowed to change. Thus, we create a very "fragile" system that is in an increasingly more stressed equilibrium situation. This stressed system will exist, however, only until it is subjected to major periods of high energy, at which time major change will occur, and the "fragile" coastal system will ultimately be restored to its natural equilibrium balance. Such change, of course, is always at man's expense. One of the major objectives in the State Program for Marine Science in North Carolina is the accumulation and dissemination of basic marine science information to the general public, academic and scientific communities, and to the governmental agencies involved in various aspects of coastal zone management. It is hoped that

this bibliography which deals with the basic geologic materials and processes of this dynamic coastal zone will help meet this objective and will allow man to more readily live with and use this exciting portion of our environment in harmony with the natural system.

This bibliography has been compiled as a result of the need to establish a working base of pertinent geologic literature of the North Carolina Coastal Zone. It has grown out of various continuing research projects conducted by the authors at East Carolina University since the initiation of the Geology Department in the Fall of 1967. Since the coastal zone is not an area which is isolated and independent of the adjacent regions, nor is it defined by boundaries, we have expanded the bibliography to include the entire North Carolina Coastal Plain, the Continental Shelf and Slope, as well as some pertinent papers dealing with adjacent or similar coastal states. The bibliography includes the literature from the earliest geologic explorations of the North Carolina Coastal Plain in the 1800's through November, 1974. The entries represent a fairly complete listing of major pertinent material occurring in publications that are generally available at major libraries; however, it should be remembered that it is virtually impossible to accomplish 100% coverage particularly when one considers the multitude of semi-related or indirectly related subjects and areas, to say nothing of the many obscure publications and information pools that exist. It is hoped that this document will represent a major reference source and starting point for all potential public user groups dealing with the multitude of geologic materials and the dynamic geologic processes that together comprise the formation of and operation within to form, maintain, and change the North Carolina Coastal Zone.

ACKNOWLEDGEMENTS

Numerous agencies, organizations, and individuals have helped to make this bibliography happen. First, we would like to acknowledge the many geology students from East Carolina University who have worked with us on the many different facets of our coastal research program. We would particularly like to thank Jeffrey Brame, Richard Koehler, Richard Spruill, and Ed Yopp, who at various times, have worked specifically on the compilation of the included references. Our thanks also go to Margaret Sullivan and Jackie Gehrlein who laboriously typed various portions of the project. The following organizations have financially supported portions of the bibliography: the North Carolina Sea Grant Program, the North Carolina Board of Science and Technology, and the East Carolina University Department of Geology.

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SECTION I
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_____	1966d	_____	1960a
_____	1966g	_____	1960b
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